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## UTILITY PATENT APPLICATION TRANSMITTAL

Only for new nonprovisional applications under 37 CFR 1.53(b))

1c833 U.S. PTO

09/599924



06/22/00

Docket No. : 39744/PYI/S787  
 Inventor(s) : Kenneth A. Milnes and Steven M. Schein  
 Title : GUIDE SYSTEM AND METHOD OF OPERATION  
 Express Mail Label No. : EL521381453US

ADDRESS TO: Assistant Commissioner for Patents  
 Box Patent Application  
 Washington, D.C. 20231

Date: June 22, 2000

1. ☒ **FEE TRANSMITTAL FORM** *(Submit an original, and a duplicate for fee processing).*

2. **IF A CONTINUING APPLICATION**

☒ This application is a Continuation of patent application No. 08/884,376, filed June 27, 1997.

Prior application information: Examiner Le, U.; Group Art Unit: 2771

— This application claims priority pursuant to 35 U.S.C. §119(e) and 37 CFR §1.78(a)(4), to provisional Application No. .

3. **APPLICATION COMPRISED OF**

**Specification**

14 Specification, claims and Abstract (total pages)

**Drawings**

6 Sheets of drawing(s) (FIGS. 1 to 6)

**Declaration and Power of Attorney**

— Newly executed

— No executed declaration

☒ Copy from a prior application (37 CFR 1.63(d))(for continuation and divisional)

4. — **Microfiche Computer Program** *(Appendix)*

5. — **Nucleotide and/or Amino Acid Sequence Submission** *(if applicable, all necessary)*

— Computer Readable Copy

— Paper Copy (identical to computer copy)

— Statement verifying identity of above copies

6. **ALSO ENCLOSED ARE**

☒ Preliminary Amendment

— A Petition for Extension of Time for the parent application and the required fee are enclosed as separate papers

— Small Entity Statement(s)

— Statement filed in parent application, status still proper and desired

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**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Only for new nonprovisional applications under 37 CFR 1.53(b))**

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Docket No.: 39744/PYI/S787

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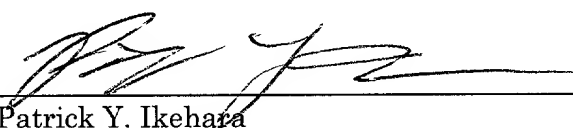
- ☐ Copy of Statement filed in provisional application, status still proper and desired
- ☐ An Assignment of the invention with the Recordation Cover Sheet and the recordation fee are enclosed as separate papers
- ☒ This application is owned by Starsight Telecast, Inc. pursuant to an Assignment recorded at Reel 8872, Frame 0756.
- ☐ Information Disclosure Statement (IDS)/PTO-1449
- ☐ Copies of IDS Citations
- ☐ Certified copy of Priority Document(s) (*if foreign priority is claimed*)
- ☐ English Translation Document (*if applicable*)
- ☒ Return Receipt Postcard (MPEP 503) (should be specifically itemized).
- ☐ Other

**7. CORRESPONDENCE ADDRESS**

***CHRISTIE, PARKER & HALE, LLP, P.O. BOX 7068, PASADENA, CA 91109-7068***

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

By   
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PYI/nml

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*I hereby certify that this correspondence is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" under 37 CFR § 1.10 Mailing Label No. EL521381453US in an envelope addressed to Commissioner of Patents and Trademarks, Washington, D.C. 20231 on June 22, 2000.*

*Tracy M. Lyons*  
Signature

Applicant : Kenneth A. Milnes, et al.  
 Application No. : Not Yet Assigned  
 Filed : Concurrently herewith  
 Title : GUIDE SYSTEM AND METHOD OF OPERATION

Grp./Div. : Not Yet Assigned  
 Examiner : Not Yet Assigned

Docket No. : 39744/PYI/S787

## PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
 Washington, D.C. 20231

Post Office Box 7068  
 Pasadena, CA 91109-7068  
 June 22, 2000

Commissioner:

In the Specification:

Page 1, Lines 8-11 Please replace "This application is a non-provisional application of U.S. provisional patent application "GUIDE SYSTEM AND METHOD OF OPERATION," U.S. Serial Number 60/023,692, filed August 14, 1996, having Kenneth A. Milnes and Steven Schein as the inventors and assigned to StarSight Telecast, Inc." with -- This application is a Continuation of U.S. Patent Application No. 08/884,376, filed June 27, 1997, the

entire disclosure of which is  
incorporated herein by reference. --

**In the Claims:**

Please cancel claims 1-30 without prejudice and add new claims  
31-40 as follows:

1        ~~31.~~ A method of operating a schedule guide system comprising:  
2        /storing data containing television schedule information,  
3        including titles of current and future television shows for  
4        particular channels in a computer readable memory;

5        displaying a plurality of cells listing a portion of a  
6        schedule guide based on said stored data and the television shows  
7        presently available for viewing over substantially all of a screen;  
8        and

9        visually distinguishing portions of cells corresponding to  
10       portions of current television shows in play from cells  
11       corresponding to future television shows and portions of cells  
12       corresponding to portions of current television shows yet to be  
13       played.

14       32. The method of claim 31 wherein the visually  
15       distinguishing current television shows from future television  
16       shows is performed by color coding portions of the cells  
17       corresponding to portions of the current television shows in play  
18       with one color and the cells corresponding to future television  
19       shows and portions of cells corresponding to portions of current  
20       television shows yet to be played with another color.

21       33. The method of claim 31 wherein the television schedule  
22       information is updated every half hour a few minutes before the  
23       half hour.

**Application No. Not Yet Assigned**

1           34. The method of claim 33 wherein the television schedule  
2 information is updated approximately three minutes before the half  
3 hour.

1           35. The method of claim 31 further comprising displaying a  
2 cell division line between television shows to indicate that a show  
3 is beginning or is already in play.

1           36. A method of operating a schedule guide system comprising:  
2 ~~storing~~ data containing television schedule information,  
3 including titles of current and future television shows for  
4 particular channels in a computer readable memory;

5           displaying a plurality of cells listing a portion of a  
6 schedule guide based on said stored data and the television shows  
7 presently available for viewing as an overlay to a current  
8 television show; and

9           visually distinguishing portions of cells corresponding to  
10 portions of current television shows in play from cells  
11 corresponding to future television shows and portions of cells  
12 corresponding to portions of current television shows yet to be  
13 played.

1           37. The method of claim 36 wherein the visually  
2 distinguishing current television shows from future television  
3 shows is performed by color coding portions of the cells  
4 corresponding to portions of the current television shows in play  
5 with one color and the cells corresponding to future television  
6 shows and portions of cells corresponding to portions of current  
7 television shows yet to be played with another color.

**Application No. Not Yet Assigned**

1           38. The method of claim 36 wherein the television schedule  
2 information is updated every half hour a few minutes before the  
3 half hour.

1           39. The method of claim 38 wherein the television schedule  
2 information is updated approximately three minutes before the half  
3 hour.

1           40. The method of claim 36 further comprising displaying a  
2 cell division line between television shows to indicate that a show  
3 is beginning or is already in play.

**REMARKS**

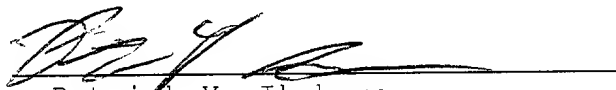
Claims 1-30 have been canceled without prejudice. New claims 31-40 have been added. It is respectfully requested that the accompanying preliminary amendment be entered prior to examination.

In view of the foregoing amendments and remarks, consideration and allowance of this application is respectfully requested.

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

By



Patrick Y. Ikehara  
Reg. No. 42,681  
626/795-9900

PYI/nml

NML PAS257993.1--6/22/00 4:23 PM

## 5 GUIDE SYSTEM AND METHOD OF OPERATION

### CROSS REFERENCE TO RELATED APPLICATION

This application is a nonprovisional application of U.S. provisional patent application "GUIDE SYSTEM AND METHOD OF OPERATION," U.S.  
10 Serial Number 60/023,692, filed August 14, 1996, having Kenneth A. Milnes and Steven Schein as the inventors and assigned to StarSight Telecast, Inc.

### BACKGROUND OF THE INVENTION

The present invention relates generally to a program schedule guide  
15 and, more particularly, to a system and process for allowing a television viewer to access on-screen television program listings in an easy and convenient way.

The number of television channels available to the user has grown dramatically within the last decade, primarily due to the availability of cable and direct broadcast satellite systems. As the number of programs of potential interest  
20 to the viewer has increased, a variety of electronic program guides have been developed to help the viewer select programs of particular interest. For example, commonly assigned U.S. Patent Numbers 4,706,121 and 5,353,121 each describes schedule information processing systems which provide the viewer with a convenient way to select programs based on viewer supplied selection criteria.

25 Although electronic program guides alleviate many of the problems associated with selecting programs of interest from the wealth of available channels, some users prefer lower cost systems.

### SUMMARY OF THE INVENTION

30 The system and method of the present invention provides a program schedule guide which displays less program information, thereby lowering the program cost. The program information to be displayed is received by a peripheral device which can either be a stand-alone device, such as a set-top box, or integrated into the user's television or VCR.

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In a preferred embodiment of the invention, the program guide displays an abbreviated program schedule guide. In this embodiment, instead of allowing the user access to schedule information for every program being broadcast on the user's television system(s), the user has only limited schedule information access. The invention can either be designed to allow the user or the system operator to select the schedule information to be presented in this abbreviated mode.

In one embodiment, if the information is presented in an abbreviated format, the user may elect to pay more and get the full format.

In another embodiment of the invention, the program schedule guide only presents programs that are currently being broadcast and/or programs that are to be broadcast in the next thirty minute time slot.

In another embodiment, the user is able to view the schedule guide in either of two modes. In the first mode the schedule guide is displayed on the entire television screen. In the alternate mode, the schedule guide is displayed as an overlay partially covering the broadcast program on the TV screen. Thus in the alternate mode the user is able to view the schedule guide at the same time as they view the desired program.

In another embodiment of the invention, the program schedule guide and information is visually distinguished by color or font, thus making the guide more user friendly. Programs which are currently being broadcast can be designated a different color or font from programs which are to be broadcast during the next time slot. Programs can also be color coded by type, thus allowing the user to quickly differentiate between dramas, comedies, sports, news, etc. The program currently being viewed by the user and to which the television tuner has been set can also be coded by font or a different color.

The program guide can be easily upgraded to a guide system offering more user features. The upgrade can be purchased either through the system operator or through a local store. In one embodiment of the invention, the user can install the upgrade without requiring technical assistance from the system operator.

A further understanding of the nature and advantages of the present invention may be realized by reference to the remaining portions of the specification and the drawings.



### BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 illustrates a preferred embodiment of a TV/computer system on which a program schedule guide according to the present invention may be displayed;

5 Fig. 2 is an illustration of a program schedule guide screen according to the present invention;

Fig. 3 is an illustration of an alternate embodiment of the program schedule guide screen which only provides schedule information for programs which are currently available for viewing;

10 Fig. 4 is an illustration of a theme selection screen used in an alternate embodiment of the invention;

Fig. 5 is an illustration of a VCR programming screen in accordance with the present invention; and

15 Fig. 6 is an illustration of a basic system configuration according to the present invention.

### DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention provides a television (TV) schedule system which displays less program information, thereby lowering the program cost. Fig. 20 1 illustrates a preferred embodiment of TV/computer system 1 that displays a program schedule guide according to the present invention. As shown, system 1 includes a distribution center 10 and multiple receiving locations. Distribution center 10 compiles data for a data-stream. In a preferred embodiment, this data-stream is broadcast to receiving locations 16, 18, 20, and 22. Several methods are available for broadcasting the data-stream from distribution center 10 to receiving locations 16-22. For example, satellite 15 may broadcast this data-stream within the vertical blanking interval (VBI) of a television channel (e.g., PBS) or a dedicated channel to receiving locations 16, 18, 20, and 22. Alternatively, the data may be broadcast out of band, i.e., using non channel specific mechanisms. In another embodiment, the data-stream is provided to receiving locations 16, 18, 20, and 22 via transmission line 13. Transmission line 13 may be, for example, optical fiber, coax cable, telephone line, or the like.

In yet another embodiment, peripheral devices, which are located within the receiving locations, receive the data-stream from, for example, a local service provider 40. Service provider 40 receives the data-stream from distribution center 10 via line 17, and broadcasts the data-stream to the receiving peripheral devices via satellite 15 (or another satellite), or via lines 19 and 13. The receiving peripheral devices may be televisions 30, televisions 34, VCRs 32, VCRs 36, and/or set-top boxes 38. In still further embodiments, PCTVs may be utilized, or the data-stream may be provided to a personal computer for use with the computer and/or more of the above devices.

In the preferred embodiment, information in the data-stream includes TV schedule information. Software located within the peripheral devices utilize the schedule information provided in the data-stream to generate a schedule guide. The software is stored on a computer-readable storage medium such as a ROM, RAM, disk, or other storage device. If the schedule guide is in a grid format, for example, the available channels may be listed on the "y" axis and various times may be listed on the "x" axis. For more information on how the schedule system displays information, see U.S. Patent No. B1 4,706,121 and U.S. Patent No. 5,151,789. Both these patents, like the present patent application, are assigned to StarSight Telecast, Inc., and are hereby incorporated by reference in their entirety for all purposes.

Fig. 2 is an illustration of a program schedule guide screen according to the present invention. As illustrated, program guide 100 substantially covers the display screen of the user's television monitor. The system may also be designed such that program guide 100 covers a portion of the screen, thus allowing the user to view both program guide 100 and a specific program simultaneously. According to one embodiment, the user may switch between a full screen display and an overlay screen to the current show via, for example, an on screen menu with cursor control. This feature allows a user to see a large scale version of the guide, or to be able to see the guide while also getting a "flavor" for a currently selected show through partial observation of the show. Preferably in this mode, the audio for the show also continues to be played.

A central portion 105 of guide 100 gives program schedule information for various channels. A cell 110 indicates the day of the week for

which the program guide information shown in portion 105 is applicable. Portion 105 is divided into cells 115, the length of each cell representing the duration of the program in question. Next to cell 110 and above cells 115 is a header portion 120. Cells 125 & 130 within portion 120 indicate the program times which correspond to the programs shown in individual cells 115.

In one embodiment of the invention, cells 125 and 130 are the only time cells. Cell 125 shows the current 1/2 hour increment, thus every program cell 115 which falls below cell 125 would represent a program which is currently on. This allows the user to immediately recognize what programs are currently available for viewing. In order to make the currently available programs more readily apparent, a portion 135 of portion 105 which is directly below time cell 125 may be color coded or have some other visually distinguishing characteristic. For example, the program names shown in portion 135 may have a different font or size or background. Thus when program guide 100 appears on the user's television screen, the color coding or other visually distinguishing characteristic allows the user to immediately know which shows are available for viewing, i.e., current programs and future programs may be visually distinguished. Programs may also be visually distinguished according to subject content, language, whether they are re-runs or whether or not the programs are being viewed or recorded or scheduled for recording.

Time cell 130 indicates the next 1/2 hour increment immediately following the time shown in cell 125. Therefore if time cell 125 indicates a time of 8:27 PM as used in Fig. 1, time cell 130 indicates a time of 8:30 PM. All of the programs listed in cells 115 which fall directly below cell 130 are programs which are upcoming in the next 1/2 hour time slot. Therefore the user is able to immediately determine the programs which are about to be broadcast. If desired, program cells 115 falling below time cell 130 may be color coded with a different color from that used to code the programs presently being broadcast or otherwise visually distinguished. Future programs may also be visually distinguished according to subject content, language, whether they are re-runs or whether or not the programs are being viewed or recorded or scheduled for recording. Furthermore, by noting whether or not there is a cell division 142 lying directly

below the division between time cells 125 and 130, the user is able to determine whether or not the show in question is beginning or already in play.

In one embodiment of the invention, it is not possible for the user to manipulate the program guide in order to obtain schedule information for programs beginning at a time after that indicated in cell 130.

Portion 140 of guide 100 contains cells 145. Each cell 145 indicates the channel number corresponding to the program guide cell 115 lying immediately adjacent to it in the program guide. Instead of, or in combination with the channel number, cells 145 may contain the program service name. For example, a cell 145 may contain the channel number 8, the service name HBO, or both.

In another embodiment of the invention, not all of the channels which are available on the user's television system are represented within program guide 100. The channels which are to be represented in the guide can either be selected by the user or by the system operator, depending upon how the system is configured. If the user designates the channels to be represented, channels which are seldom viewed can be "discarded", thus allowing the user to more efficiently review the program guide information. If the system operator designates the channels to be represented, then both time and cost savings may be realized since the system may provide less information.

The system operator can use a variety of criteria to determine which channels are to be represented. For example, only the most popular channels may be represented. The system operator may also charge each broadcaster an additional fee to be listed on this particular guide. The system operator may also charge an additional fee, per time slot, to make a specific program "special". A number of different schemes can be used to draw the user's attention to special programs. For example, the program may be listed first in the program guide, shown in a different typeface, presented in a different color, or given additional space for a program description.

In the preferred embodiment of the invention illustrated in Fig. 3, a program guide 200 only provides program schedule information for a single time period, that period representing programs which are presently available for viewing. A cell 205 indicates the time period for which program schedule information is provided. Cell 205 changes every half hour. The programs available for viewing

during the designated time period are listed in a plurality of cells 210. Cells 215 indicate the channel number or service name for the corresponding cells 210. In this embodiment the program schedule information is preferably updated approximately 3 minutes before the half hour. Therefore if the time of day is 7:55 PM when the user requests program guide information, the program guide would provide information for the time period beginning at 7:30 PM. However, if the user waits until 7:58 PM to make the same request, the information provided by the system will be for programs starting at 8:00 PM. The system can be further configured to indicate to the user whether or not a program is continued from a previous time period and/or whether or not the program will be continued after the present half hour time increment. These aspects of the invention can be implemented by either color coding the particular cell in question or through the use of some other form of marking or notation.

Fig. 4 is an illustration of a screen which may appear before program guide screen 100 or 200 in an alternate embodiment of the invention. Screen 300 appears on the user's television monitor when the user selects the program guide feature. The user is prompted to select a theme from a list of very broad categories shown in a portion 305 of screen 300. The subsequent program guide screen then supplies the user with all of the programs fitting the theme requirement for the times provided in the guide.

Fig. 5 is an illustration of a VCR programming screen 400 that may be used in combination with any of the previously described program guides. Screen 400 is divided into a seven day grid. The day of the week is indicated in cell 405. Adjacent to each day of the week is a linear grid 410 which divides each 24 hour day into 48 half hour increments. Due to the limited resolution of a standard television screen, grid 410 can be divided into several segments (e.g., 6, 8, or 12 hour segments), and the user may page through the grid to find the desired time slot. Grid 410 can also be limited to 12 hours, with the screen also having cells 415, which the user may use to indicate AM or PM.

In this embodiment the user first indicates the desire to program the VCR. Typically the initial program guide screen contains an icon labeled VCR. When the user selects this icon, screen 400 pops up. The user then selects the times over which recording is desired, for example by moving the cursor to the

desired time slot and pressing ENTER. Thus if the user wishes to record a program on Thursday night starting at 9:00 PM and ending at 9:30 PM, the user simply moves the cursor to the 9:00 PM slot for Thursday night and presses enter. In the preferred embodiment, if the user wishes to record a program which lasts  
 5 longer than 30 minutes, the user merely moves the cursor to each successive time slot and presses enter. After the user indicates a specific day and time period through the use of a cursor, the program guide requests that the user enter a channel number. Preferably screen 400 begins flashing a question mark (i.e., "?") in a cell 420 adjacent to the day of the week on which recording has been requested. Screen  
 10 400 can also request that the user indicate the channel using a message shown in a message portion 425 of screen 400.

After the user has indicated the time and channel for recording, the screen notifies the user with a message in portion 425 that the programming has been successfully completed. In addition, the message in portion 425 may also ask  
 15 whether the user wishes to set the VCR for recording of another event. If the user has made a programming error, for example, by attempting to record multiple programs at the same time and day, a message in portion 425 notifies the user that the programming was not successfully completed.

Fig. 6 illustrates the hardware elements of a preferred embodiment of the invention. As shown, the configuration utilizes a program guide controller 505  
 20 (for example, a data processor), one or more televisions sources 510, and a TV, PCTV or computer monitor 515. The system may also include a VCR 520 and a remote control 525. Program guide system 505 may be a stand-alone device or incorporated into another system such as a television, a cable decoder, computer,  
 25 PCTV, or a VCR.

The preferred embodiment of the present invention includes a plug-in program guide controller module 530. Module 530 determines the extent of program guide 505's capabilities. Thus module 530 may only allow program guide 505 to present an abbreviated program schedule to the user, the abbreviated  
 30 schedule showing a limited selection of channels covering a limited time span. For example, in this mode the program guide may contain no more than 20 channels, only showing what is currently on as well as what is to be broadcast during the next half hour increment for each of the selected channels. When the user wishes to

upgrade program guide 505, for example, adding a 7 day program guide for all channels as well as detailed category searching, module 530 may be simply replaced with a different module authorizing more extensive guide capabilities. This embodiment has the distinct advantage of allowing the system to be significantly altered without requiring major hardware changes. For example, module 530 may be upgradeable by the user, thus not requiring the system operator to provide technical support. In this scenario the user would merely procure a different module 530, install the new module into the program guide system 505, and pay the new fee set by the system operator for the new benefits.

Preferably the system operates under the control of software 531 on a removable computer memory. The memory for software 531 may be located in one or more ICs, for example, the plug-in module of the data processor, or in ROM, RAM, or a combination of the two. Accordingly, the disclosures and descriptions herein are intended to be illustrative, but not limiting, of the scope of the invention which is set forth in the following claims.

WHAT IS CLAIMED IS:

1                   1.     A method of operating a guide system comprising:  
 2                   storing data representative of a plurality of media shows in a  
 3 computer readable memory;  
 4                   inputting a user selection for selectively controlling whether a guide  
 5 is displayed over substantially all of a screen or partially overlaid over a current  
 6 television show to which a television receiver is tuned; and  
 7                   selectively displaying a media guide based on said stored data over  
 8 substantially all of said screen or as an overlay to a current television show based  
 9 on said user selection.

1                   2.     The method of claim 1 further comprising the step of selecting  
 2 one of said plurality of media shows, said selecting step performed by a user of said  
 3 guide system.

1                   3.     The method of claim 1 wherein said media shows are  
 2 television shows.

1                   4.     The method of claim 3 further comprising the step of selecting  
 2 a portion of said plurality of television shows, said selecting step performed by a  
 3 system operator of said television schedule system based on a selection criteria input  
 4 by a user.

1                   5.     The method of claim 4 wherein said selection criteria is  
 2 television show popularity.

1                   6.     The method of claim 3 wherein said plurality of television  
 2 shows are television shows presently available for viewing.

1                   7.     The method of claim 3 wherein said plurality of channels is  
 2 less than a total number of channels over which programs are received by said  
 3 television system.



1                   8.     The method of claim 7 wherein said media guide schedule  
2 information is available for a predetermined period of time prior to availability of a  
3 program.

1                   9.     The method of claim 8 wherein said predetermined period of  
2 time is approximately 3 minutes.

1                   10.    The method of claim 3 further comprising the step of visually  
2 distinguishing current television shows from future television shows.

1                   11.    The method of claim 3 further comprising the step of visually  
2 distinguishing television shows according to their subject matter.

1                   12.    The method of claim 3 wherein information displayed within  
2 said media guide may not be manipulated by a user.

1                   13.    A computer program product comprising:  
2 computer readable code that inputs media program schedule  
3 information, said schedule information comprising at least program information and  
4 times;  
5 computer readable code that selectively displays said media program  
6 schedule information over substantially all of a screen or partially overlaid over a  
7 current television show to which a television receiver is tuned; and  
8 tangible media that store the computer readable code.

1                   14.    The computer program product as recited in claim 13 wherein  
2 said media shows are television shows.

1                   15.    The computer program product as recited in claim 13 wherein  
2 said media program schedule information is updated every half hour a few minutes  
3 before the half hour.

1                   16.    The computer program product as recited in claim 13 wherein  
2   said media program schedule information has the current program visually  
3   distinguished.

1                   17.    A method of generating a media guide in a user display  
2   comprising:  
3                   providing guide information for a plurality of channels to a user; and  
4                   when said user activates an optional guide service, providing said  
5   user guide with additional guide information.

1                   18.    The method recited in claim 17 wherein said optimal service is  
2   provided through acquisition and use of a plug-in module.

1                   19.    The method of claim 17 further comprising the step of  
2   selecting said plurality of channels, said selecting step performed by a user.

1                   20.    The method of claim 17 further comprising the step of  
2   selecting said plurality of channels, said selecting step performed by a system  
3   operator based on a selection criteria.

1                   21.    The method of claim 20 wherein said selection criteria is  
2   channel popularity.

1                   22.    The method of claim 17 wherein said plurality of channels are  
2   channels presently available for viewing.

1                   23.    The method of claim 22 wherein said guide information for  
2   programs are available for a predetermined period of time prior to said availability  
3   of said programs on said plurality of channels.

1                   24.    The method of claim 23 wherein said predetermined period of  
2   time is approximately 3 minutes.

1                   25.    A method of displaying media guide information comprising:  
2                   displaying a plurality of current playing and future playing media  
3                   guide listings; and  
4                   visually distinguishing those listings that are currently playing from  
5                   future play listings with at least one visually distinguishing feature.

1                   26.    The method of claim 25 further comprising the step of  
2                   selecting said first plurality of media guide listings, said selecting step performed by  
3                   a user.

1                   27.    The method of claim 25 further comprising the step of  
2                   selecting said first plurality of media guide listings, said selecting step performed by  
3                   a system operator based on a selection criteria.

1                   28.    The method of claim 27 wherein said selection criteria is  
2                   television guide listing popularity.

1                   29.    A media schedule system for displaying VCR programming  
2                   guide information, said system comprising:  
3                   a data processor;  
4                   a switching mechanism coupled to said data processor for activating  
5                   and suspending operation of said VCR programming guide information system; and  
6                   a display generator coupled to said data processor for generating a  
7                   display containing said VCR programming guide information, wherein said display  
8                   contains a grid of time segments and channel numbers of which a plurality of times  
9                   and/or channels can be selected can be chosen for programming a VCR.

1                   30.    The media schedule system of claim 29 wherein a user may  
2                   choose a channel number by entering the channel number.

## GUIDE SYSTEM AND METHOD OF OPERATION

## ABSTRACT OF THE DISCLOSURE

A system and method for displaying a simplified electronic program schedule guide on a user's television monitor is provided. In one embodiment, the program schedule guide is abbreviated to include only the programs currently available for viewing on a subset of the available channels. In another embodiment, the program guide screen visually distinguishes between programs for the convenience of the viewer.

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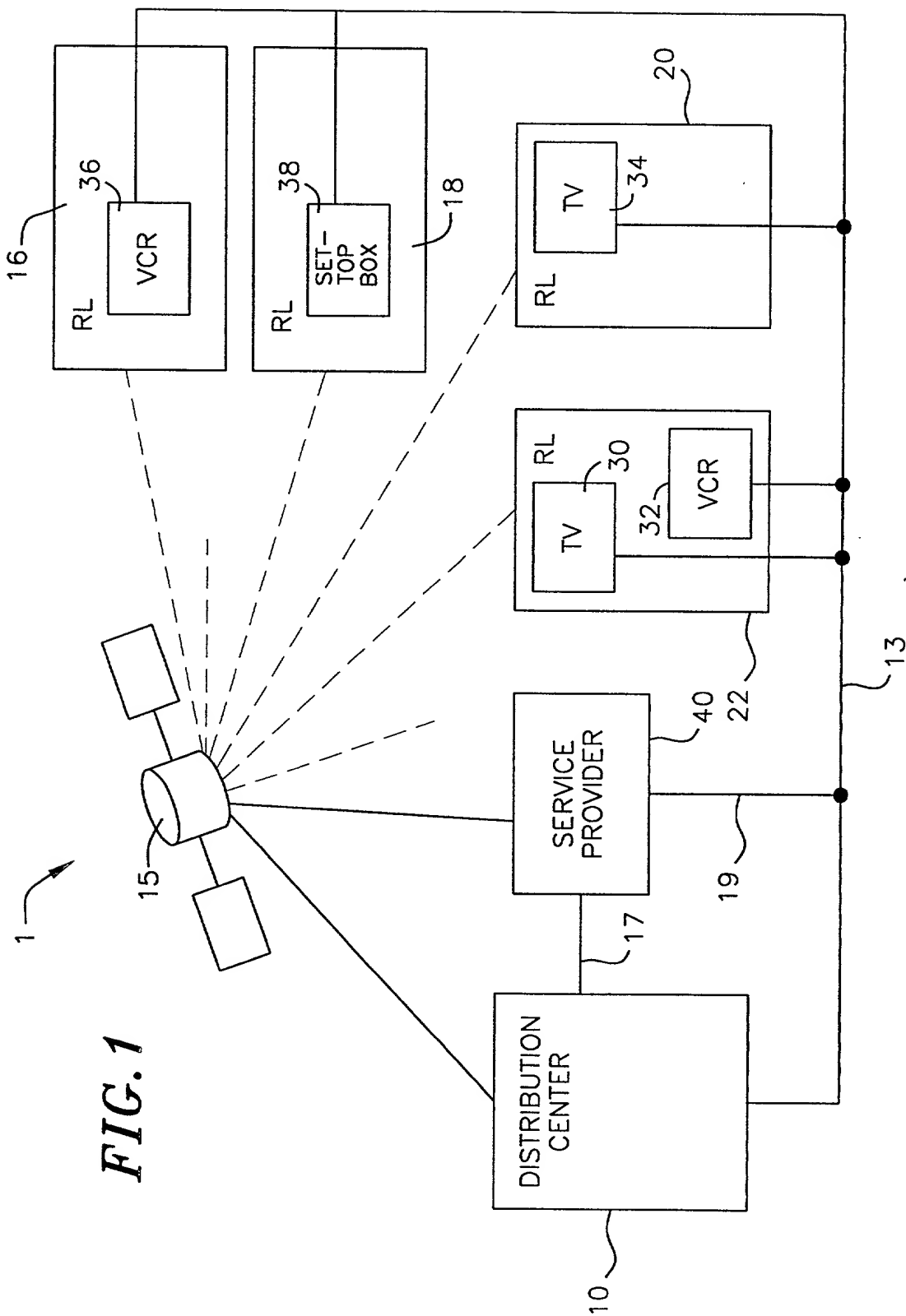
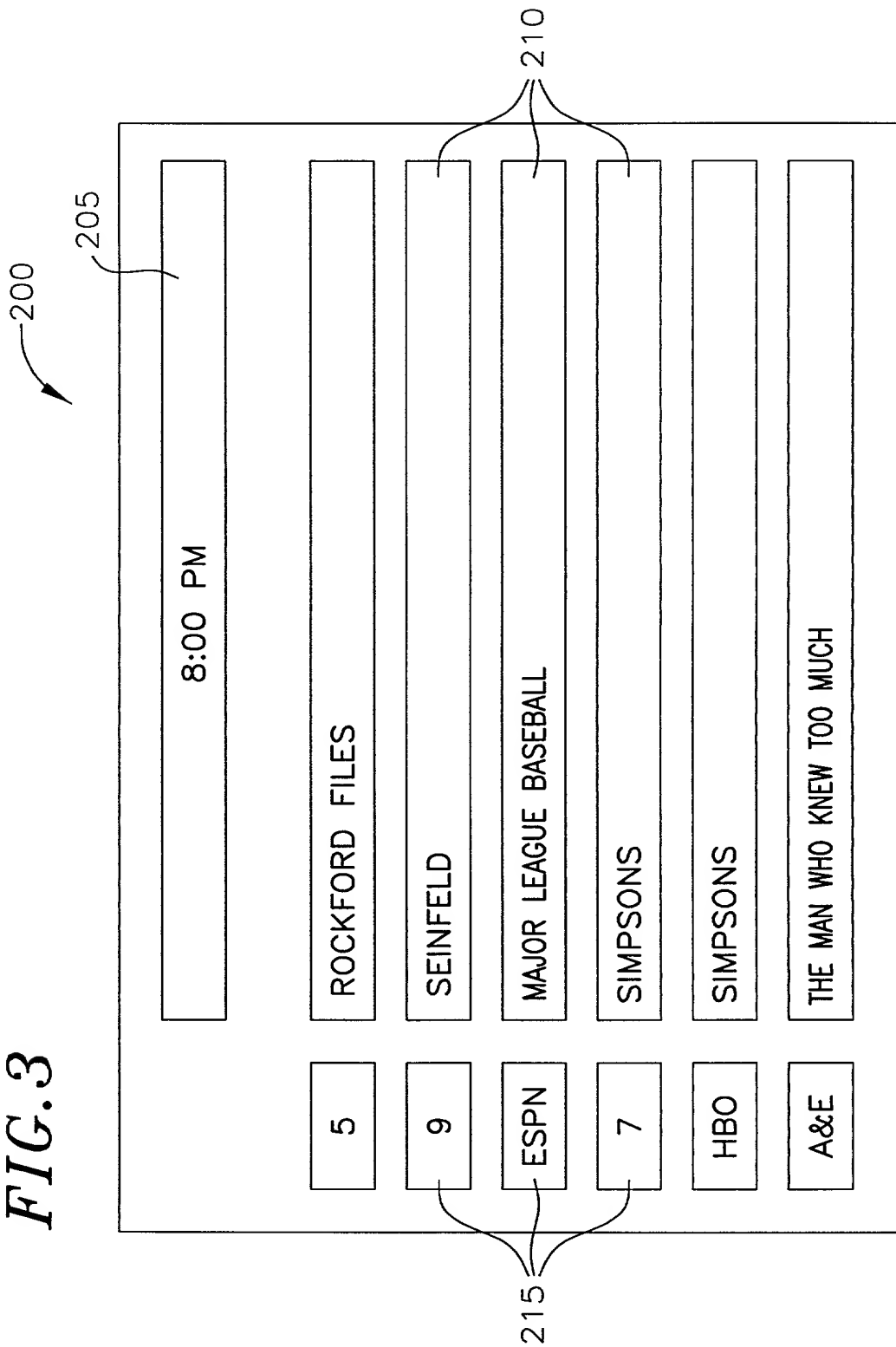
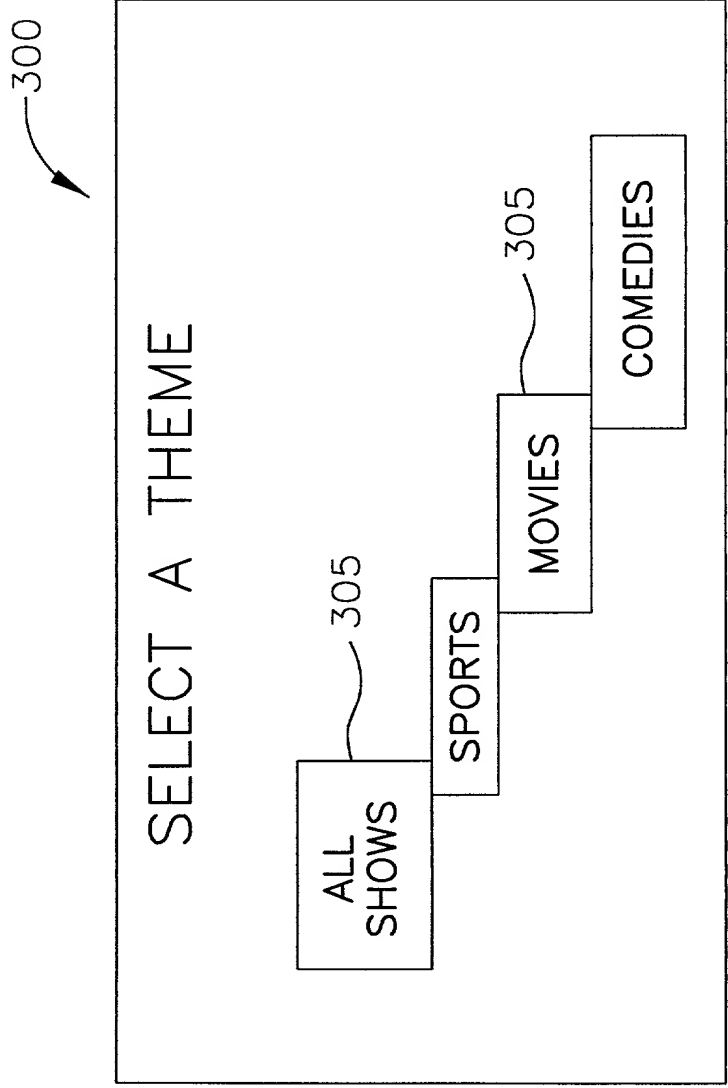




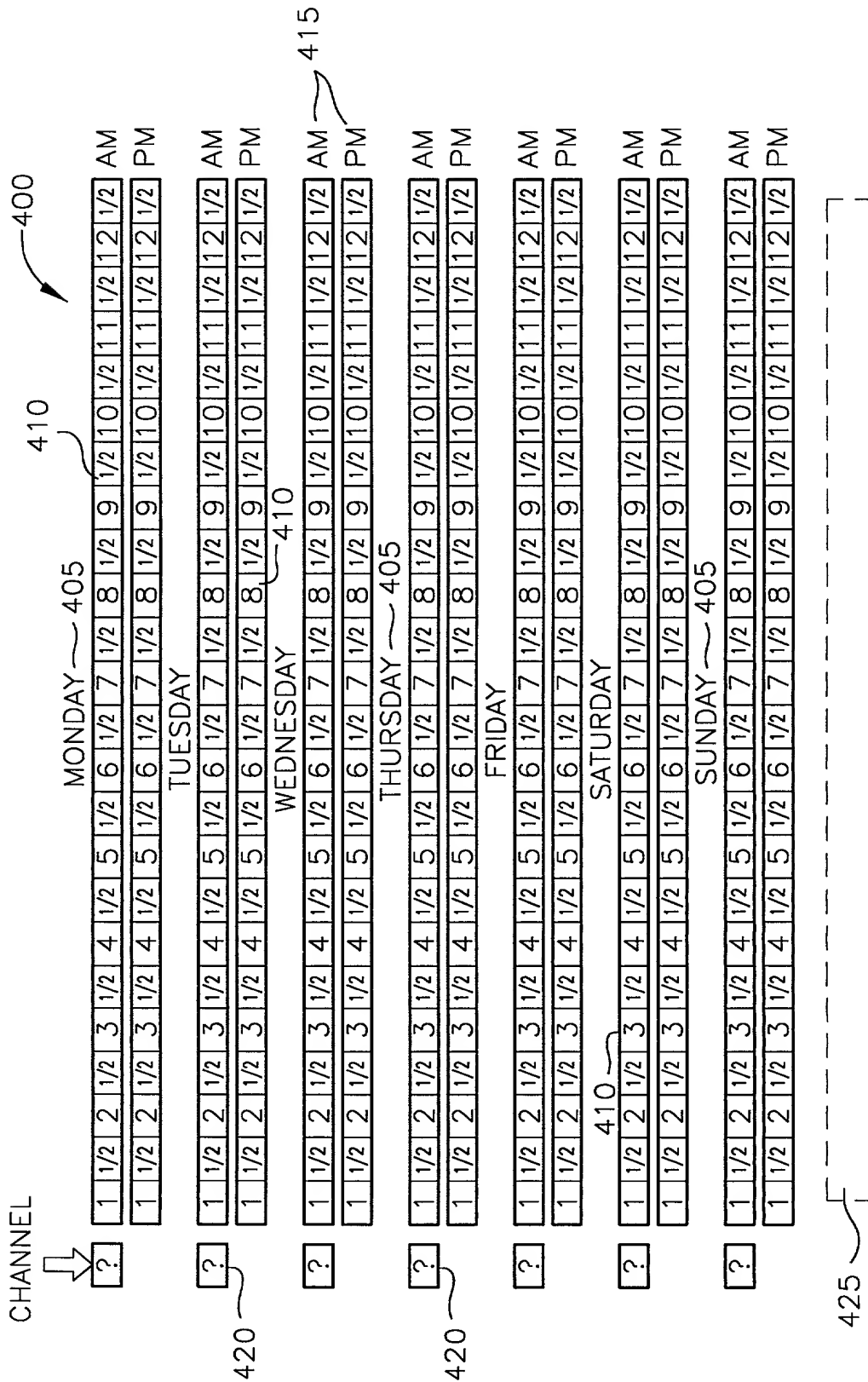
FIG. 3



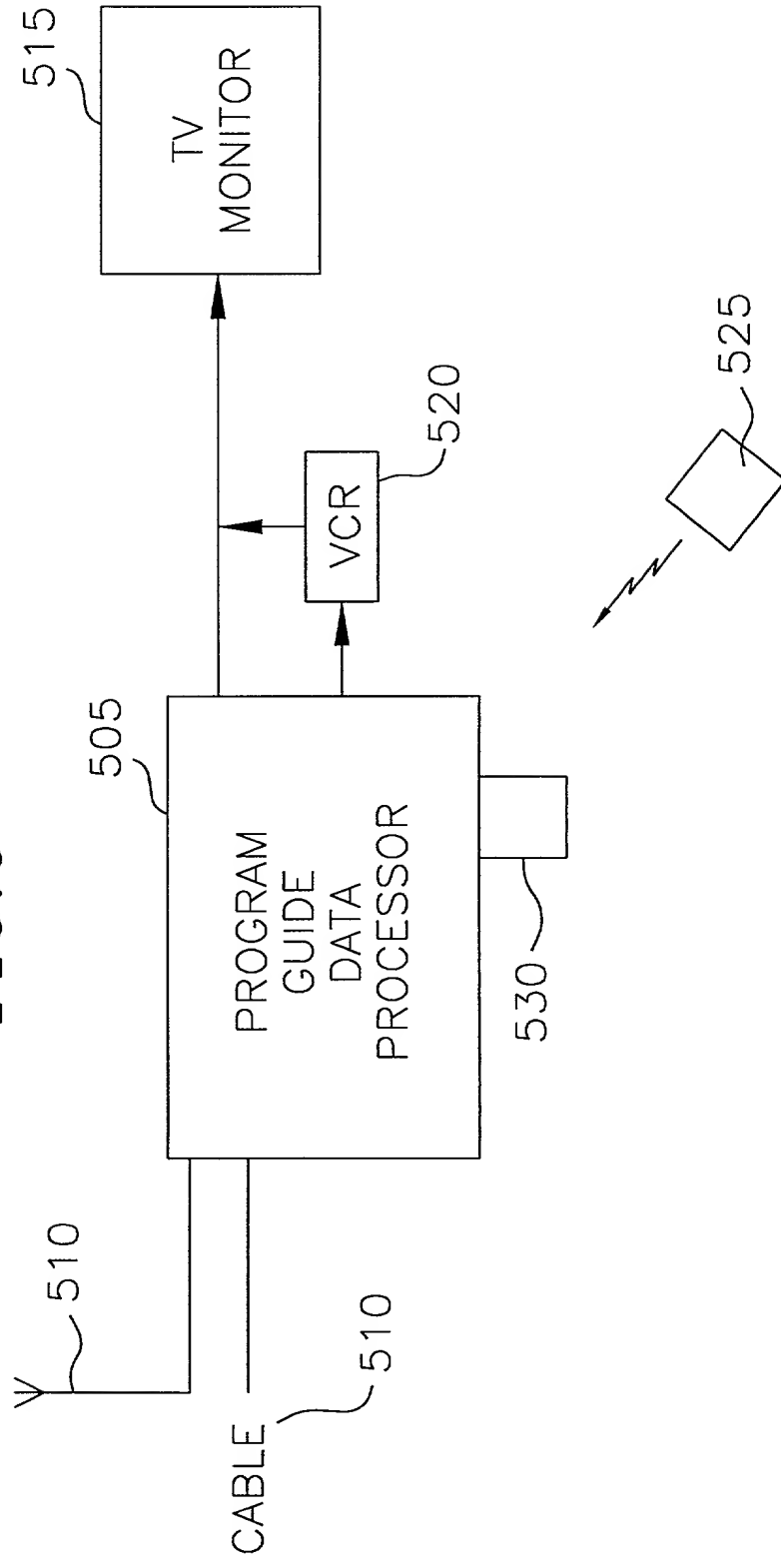


*FIG. 4*





**FIG. 6**



**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **GUIDE SYSTEM AND METHOD OF OPERATION** the specification of which \_\_\_ is attached hereto or X was filed on June 27, 1997 as Application No. 08/884,376 and was amended on \_\_\_\_\_ (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign applications(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

**Prior Foreign Application(s)**

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
			Yes _ No _
			Yes _ No _

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date
60/023,692	August 14, 1996

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
		_ Patented _ Pending _ Abandoned
		_ Patented _ Pending _ Abandoned

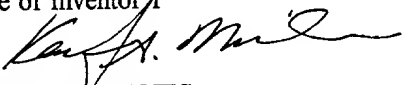
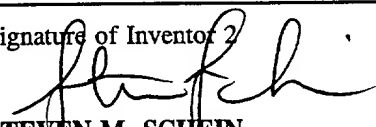
**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

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I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1  <b>KENNETH A. MILNES</b>	Signature of Inventor 2  <b>STEVEN M. SCHEIN</b>
Date <b>Dec 8, 1997</b>	Date <b>11/18/97</b>

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Kenneth A. Milnes et al.  
 Application No. : 08/884,376  
 Filed : June 27, 1997  
 Title : GUIDE SYSTEM AND METHOD OF OPERATION

Grp./Div. : 2615  
 Examiner : S. Post

Docket No. : 32551/LTR

## SUBSTITUTION OF ATTORNEY BY ASSIGNEE

Commissioner of Patents and Trademarks  
 Washington, D.C. 20231

Commissioner:

StarSight Telecast Incorporated, assignee of the entire interest in and to the above-identified U.S. patent application under an Assignment recorded in the U.S. Patent and Trademark Office on January 5, 1998, at Reel 8872, Frame(s) 0756, hereby revokes all previous Powers of Attorney and appoints:

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all members or associates of or of counsel to the firm CHRISTIE, PARKER & HALE, LLP, telephone (626) 795-9900, as principal attorneys with power to appoint associate attorneys, to prosecute this application and any subsequent application based on the disclosure of this application, and to transact all business in the Patent and Trademark Office connected with this application and any subsequent application.

Application No. 08/884,376

The authority under this Power of Attorney of each person named above shall automatically terminate and be revoked upon such person ceasing to be a member or associate of or of counsel to that law firm.

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STARSIGHT TELECAST INCORPORATED

Date

6/16/98

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VP Intellectual Property & Licensing

LTR/dg

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